



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/500,604	06/30/2004	Markus Isler	753-39 PCT/US	4744

23869 7590 07/15/2005

HOFFMANN & BARON, LLP
6900 JERICHO TURNPIKE
SYOSSET, NY 11791

EXAMINER

FREISTEIN, ANDREW B

ART UNIT	PAPER NUMBER
----------	--------------

1626

DATE MAILED: 07/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/500,604

Applicant(s)

ISLER ET AL.

Examiner

Andrew B. Freistein

Art Unit

1626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 30 June 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☒ Claim(s) 1-19 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claims 1-19 are currently pending in the instant application.

Priority

This application is a 371 of PCT/CH02/00725, filed 12/27/2002.

Acknowledgement is made of Applicant's claim for foreign priority under 35 U.S.C. § 119(a)-(d), by Switzerland patent application 2381/01 filed on 12/31/2001.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

Lack of Unity Requirement

Claims 1-19 are drawn to more than one inventive concept (as defined by PCT Rule 13), and accordingly, a restriction is required according to the provision of PCT Rule 13.2.

PCT Rule 13.2 states that the international application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept (requirement of unity of invention).

PCT Rule 13.2 states unity of invention referred to in Rule 13.1 shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features.

Annex B, Part 1 (b), provides that "special technical features" mean those technical features, which, as a whole, define a contribution over the prior art.

Annex B, Part 1 (e), provides combinations of different categories of claims and states:

Art Unit: 1626

"The method for determining unity of invention under Rule 13 shall be construed as permitting, in particular, the inclusion of any one of the following combinations of claims of different categories in the same international application:

- (i) in addition to an independent claim for a given product, an independent claims for a process specially adapted for the manufacture of the said product, and an independent claim for use of the said product, or
- (ii) in addition to an independent claim for a given process, an independent claim for an apparatus or means specially designed for carrying out the said process, or
- (iii) in addition to an independent claim for a given product, and independent claim for a process specially adapted for the manufacture of the said product, and an independent claim for an apparatus or means specially designed for carrying out the said process,..."

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Due to numerous and widely divergent variables in the compound of Formula (I), for example: R₁, R₂, R₃, R₄, R₅, R₆, R₇, X, a, and b, a precise listing of inventive groups cannot be made. The following groups are exemplary:

Group I: Claims 1-12 and 14 (in part), drawn to products of Formula I, wherein R₁ is pyridyl; R₂ is a; X is NR₃; R₃ is as defined; and R₄ is as defined.

Group II: Claims 1-12 and 14 (in part), drawn to products of Formula I, wherein R₁ is pyridyl; R₂ is b; R₅ is NR₆R₇; R₆ is as defined; and R₇ is pyrimidine.

Group III: Claims 1-12 and 14 (in part), drawn to products of Formula I, wherein R₁ is thienyl or furyl; R₂ is b; R₅ is NR₆R₇; R₆ is as defined; and R₇ is pyrimidine.

Group IV: Claims 1-12 and 14 (in part), drawn to products of Formula I, wherein R₁ is as defined, but does not include any heterocyclic rings; R₂ is a; X is CH₂ or CO; and R₄ is as defined.

Art Unit: 1626

Group V: Claims 1-12 and 14 (in part), drawn to products of Formula I, wherein R_1 is as defined, but does not include any heterocyclic rings; R_2 is b; R_5 is NR_6R_7 ; R_6 is as defined; and R_7 is as defined, but does not include a heterocyclic ring.

Group VI: Claims 1-12 and 14 (in part), drawn to products of Formula I, wherein R_1 is as defined, but does not include any heterocyclic rings; R_2 is a; X is NR_3 ; R_3 is as defined; and R_4 is as defined.

Group VII: Claims 1-12 and 14 (in part), drawn to products of Formula I, wherein R_1 is morpholino; R_2 is a; X is NR_3 ; R_3 is as defined; and R_4 is as defined.

Group VIII: Claims 1-12 and 14 (in part), drawn to products of Formula I, wherein R_1 is thienyl or furyl; R_2 is a; X is NR_3 ; R_3 is as defined; and R_4 is as defined.

Group IX: Claims 13 and 15, drawn to methods of treating by administering compounds of Formula I, wherein R_1 is pyridyl; R_2 is a; X is NR_3 ; R_3 is as defined; and R_4 is as defined.

Group X: Claims 13 and 15, drawn to methods of treating by administering compounds of Formula I, wherein R_1 is pyridyl; R_2 is b; R_5 is NR_6R_7 ; R_6 is as defined; and R_7 is pyrimidine.

Group XI: Claims 13 and 15, drawn to methods of treating by administering compounds of Formula I, wherein R_1 is thienyl or furyl; R_2 is b; R_5 is NR_6R_7 ; R_6 is as defined; and R_7 is pyrimidine.

Group XII: Claims 16 and 17, drawn to methods of preparing compounds of Formula I, wherein R_1 is as defined, but does not include any heterocyclic rings; R_2 is a; X is CH_2 or CO; and R_4 is as defined.

Art Unit: 1626

Group XIII: Claims 16 and 17, drawn to methods of preparing compounds of Formula I, wherein R_1 is as defined, but does not include any heterocyclic rings; R_2 is b; R_5 is NR_6R_7 ; R_6 is as defined; and R_7 is as defined, but does not include a heterocyclic ring.

Group XIV: Claims 16 and 17 drawn to methods of preparing compounds of Formula I, wherein R_1 is as defined, but does not include any heterocyclic rings; R_2 is a; X is NR_3 ; R_3 is as defined; and R_4 is as defined.

Group XV: Claim 18, drawn to products of Formula IV.

Group XVI: Claim 19, drawn to products of Formual III.

Group XVII: Claims 1-12 and 14 (in part) drawn to products of Formula I, containing compounds not encompassed in Groups I - VIII. (If this group is elected, Applicant is requested to elect a single species for search purposes. This group is subject to further restriction, if elected).

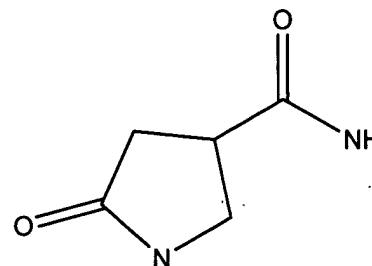
In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention (group) to which the claims must be restricted. As stated above, this is not an exhaustive list, as it would be impossible to produce such a list under the time constraints due to the large volume of subject matter claimed in this application.

The claims herein lack unity of invention under PCT Rules 13.1 and 13.2 because, pursuant to 37 C.F.R. 1.475(a) **Groups I-XVII** lack unity of invention since under 37 CFR 1.475:

Where a group of inventions is claimed in an application, the requirement of unity of invention shall be fulfilled only when there is a technical feature among those inventions involving one or more of the same or corresponding special technical

Art Unit: 1626

features...those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.



The structural moiety common to **Groups I-XVII** is

This technical feature is not a special technical feature, because it fails to define a contribution over the prior art (see US Pat. No. 6,166,015, column 23, lines 16-50, disclosing 3-aminomethylpyrrolidine). Therefore, claims 1-19 are not so linked as to form a single general inventive concept and there is a lack of unity of invention. The variables vary extensively and when taken as a whole result in vastly different compounds. Additionally, the vastness of the claimed subject matter and the complications in understanding the claimed subject matter impose a serious burden on any examination of the claimed subject matter.

Because the claims do not relate to a single general inventive concept under PCT Rule 13.1 and lack the same or corresponding special technical features, the claims lack unity of invention and should be limited to a product, a process for the manufacture of said product, or a method of use.

Furthermore, with respect to **Groups I-XVII**, even if unity of invention under 37 CFR 1.475(a) is not lacking, under 37 CFR 1.475(b) a national stage application containing claims to different categories of invention will be considered to have unity of invention if the claims are drawn only to one of the following combinations:

Art Unit: 1626

- (1) A product and a process specially adapted for the manufacture of said product; or
- (2) A product and process of use of said product; or
- (3) A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or
- (4) A process and an apparatus or means specially designed for carrying out the said process; or
- (5) A product, a process specially adapted for the manufacture of the said product, and an apparatus or means specially designed for carrying out the said process.

Moreover, according to 37 CFR 1.475(c),

If an application contains claims to more or less than one of the combinations of categories of invention set forth in paragraph (b), unity of invention might not be present.

In the instant case the claims are drawn to more than one product, process, and method of use. According to 37 CFR 1.475(e),

The determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim.

As a result, the claims lack unity of invention and applicant is required to elect a single invention for prosecution.

The claims directed to a single method of preparation and a single method of use will be examined along with the elected invention so long as it is commensurate in scope therewith.

Art Unit: 1626

A telephone call was made to Attorney Jaime M. Larmon on July 12, 2005 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even if the restriction requirement is traversed (37 CFR 1.143).


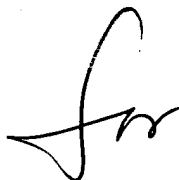
Telephone Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew B. Freistein whose telephone number is (571) 272-8515. The examiner can normally be reached on 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph McKane can be reached on (571) 272-0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrew B. Freistein
Patent Examiner, AU 1626



Joseph McKane
Supervisory Patent Examiner, AU 1626
Date: July 12, 2005